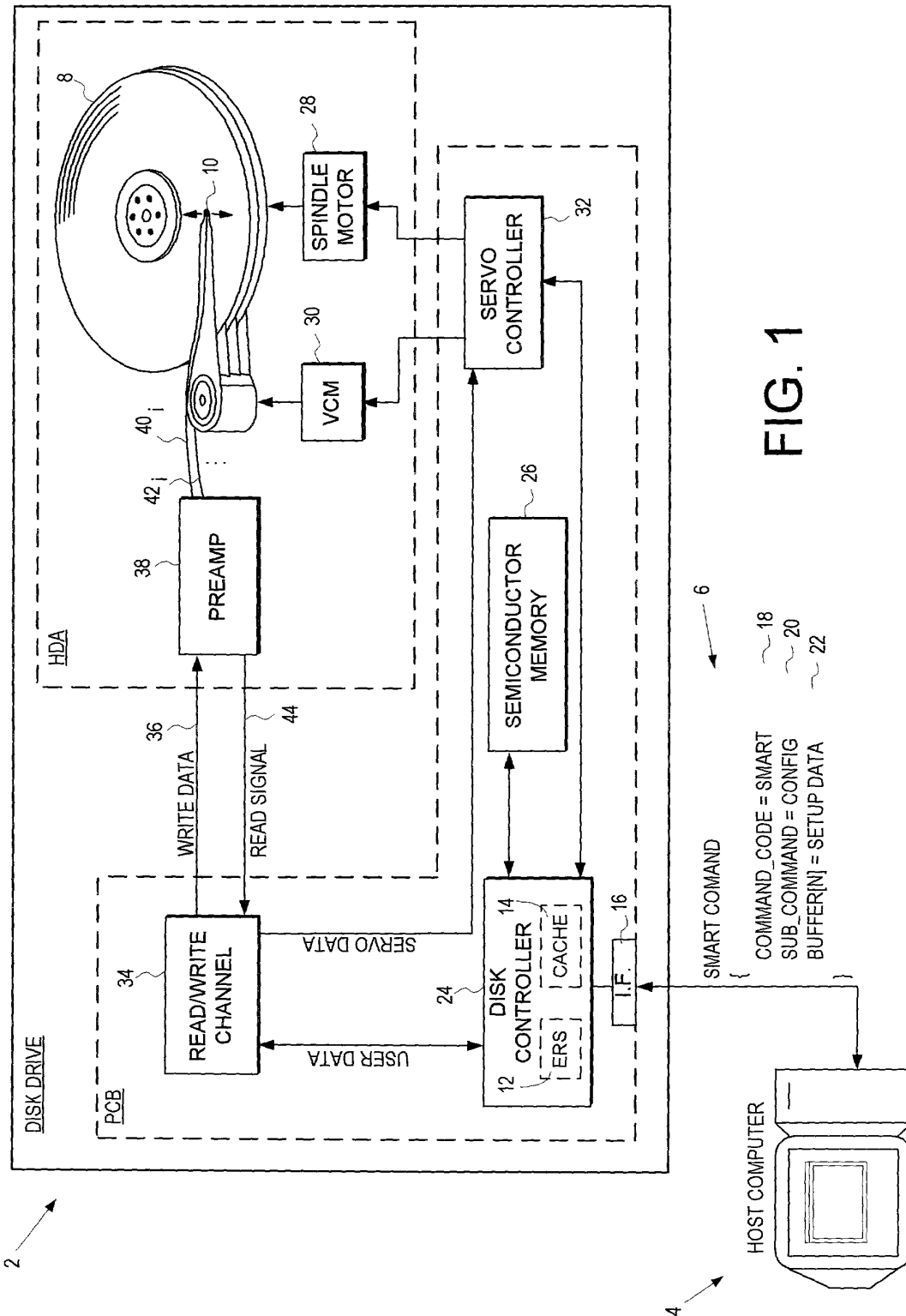


1/4



2/4

BOOL DeviceIoControl(hDevice, dwIoControlCode, lpvInBuffer, cbInBuffer,
lpvOutBuffer, lpcBytesReturned, lpoOverlapped)

HANDLE	hDevice;	// handle of device
DWORD	dwIoControlCode;	// control code of operation to perform
LPVOID	lpvInbuffer;	// address of buffer for input data
DWORD	cbInBuffer;	// size of input buffer
LPVOID	lpvOutBuffer;	// address of output buffer
DWORD	cbOutBuffer;	// size of output buffer
LPDWORD	lpcBytesReturned;	// address of actual bytes of output
LPOVERLAPPED	lpoOverlapped;	// address of overlapped structure

FIG. 2A

```
typedef struct _SENDCMDINPARAMS {
    DWORD    dwBufferSize    // Size of bBuffer in bytes
    IDEREGS  irDriveRegs;    // Structure with drive register values.
    BYTE     chDriveNumber;  // Physical drive number to send command to (0,1,2,3).
    BYTE     chReserved[3];  // Reserved for future expansion.
    DWORD    dwReserved[4];  // Reserved for future expansion.
    BYTE     chBuffer[1];    // Buffer of arbitrary length in which to store the data to be written to drive.
} SENDCMDINPARAMS, *PSENDCMDINPARAMS, *LPSENDCMDINPARAMS;
```

FIG. 2B

```
typedef struct SendCmdOutParams {
    DWORD    dwBufferSize;  // Size of bBuffer in bytes
    DRIVERSTATUS  DriverStatus; // Driver status structure.
    BYTE     chBuffer[1];   // Buffer of arbitrary length in which to store the data read from
                          // the drive.
} SENDCMDOUTPARAMS, *PSENDCMDOUTPARAMS;
```

FIG. 2C

```
typedef struct _IDEREGS {
    BYTE     chFeaturesReg;  // Used for specifying DFP sub commands.
    BYTE     chSectorCountReg // IDE sector count register
    BYTE     chSectorNumberReg // IDE sector number register
    BYTE     chCylLowReg     // IDE low order cylinder value
    BYTE     chCylHighReg    // IDE high order cylinder value
    BYTE     chDriveHeadReg  // IDE drive/head register
    BYTE     chCommandReg;   // Actual IDE command. Checked for validity by driver.
    BYTE     chReserved;     // reserved for future use. Must be zero.
} IDEREGS, *PIDEREGS;
```

FIG. 2D

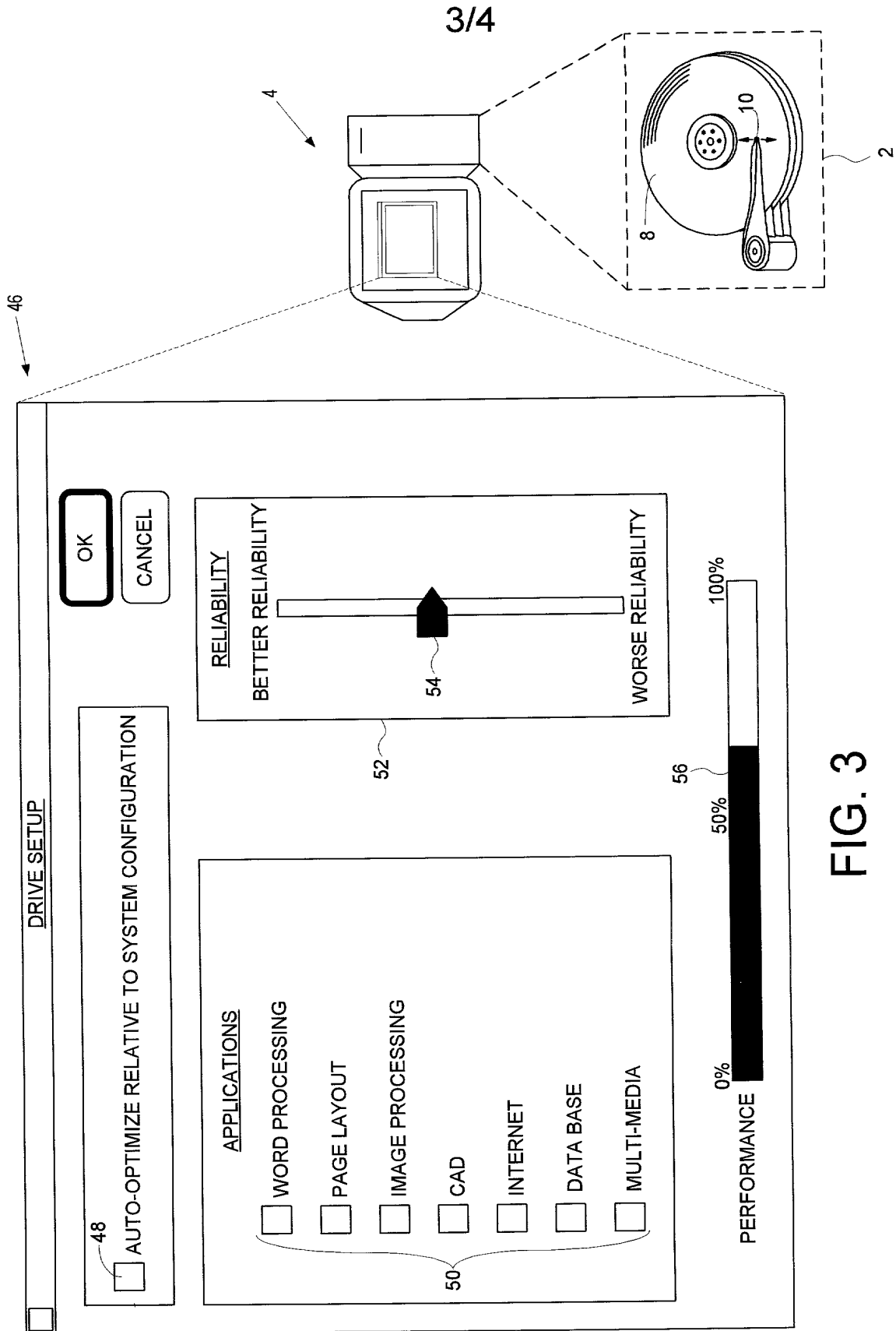


FIG. 3

